

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250907

Luminaire Tested: **LSR8B70D010 EC8B70950 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7339.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

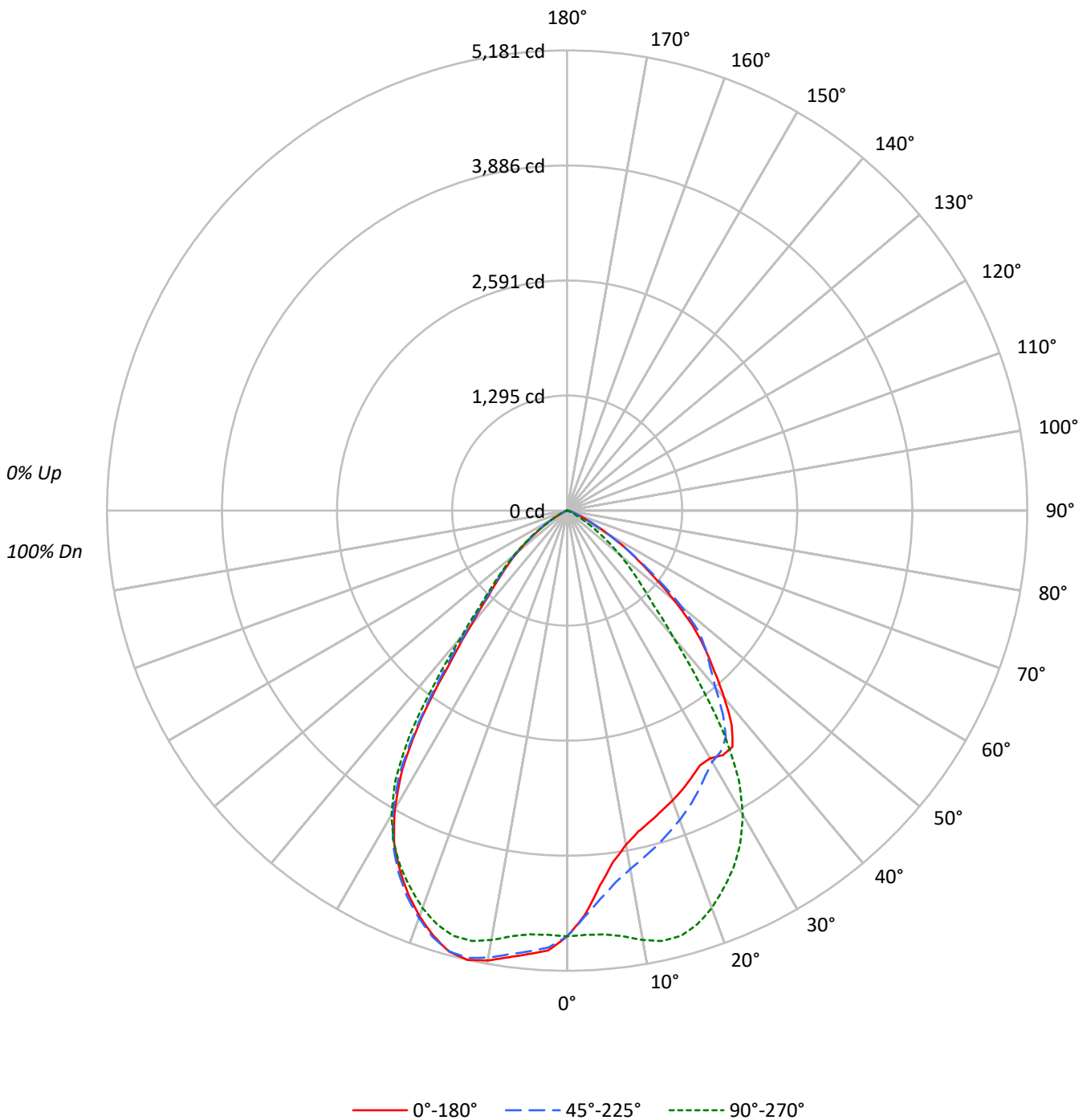
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	147842	147842	147842
5°	131171	148211	155151
10°	119593	153714	161050
15°	115578	158206	164115
20°	113925	156257	159479
25°	112807	150866	151812
30°	114646	140796	138193
35°	122201	116513	108073
40°	110747	74591	67542
45°	95587	51036	47517
50°	75418	37227	35049
55°	52348	22892	21537
60°	33328	11576	10330
65°	16636	4597	3495
70°	9196	2272	1253
75°	6600	1656	596
80°	5363	1119	231
85°	5802	885	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.9	6.1
10°-20°	1290.7	17.6
20°-30°	1873.3	25.5
30°-40°	1845.0	25.1
40°-50°	1156.5	15.8
50°-60°	558.1	7.6
60°-70°	135.0	1.8
70°-80°	27.3	0.4
80°-90°	6.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3610.8	49.2
0°-40°	5455.8	74.3
0°-60°	7170.4	97.7
0°-90°	7339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7339.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4794	4794	4794	4794	4794	
5°	4238	4381	4788	4982	5012	392
15°	3620	3905	4956	5137	5141	1024
25°	3316	3488	4434	4495	4462	1534
35°	3246	3114	3095	2919	2871	1964
45°	2192	2207	1170	1121	1090	1676
55°	974	1005	426	421	401	896
65°	228	226	63	54	48	260
75°	55	48	14	6	5	62
85°	16	13	2	0	0	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4
2.5°	4557.6	4528.6	4474.5	4540.0	4540.0	4503.4	4576.5	4532.4	4567.7	4623.1	4574.0
5°	4237.6	4213.7	4168.3	4237.6	4246.5	4212.4	4300.6	4267.9	4319.5	4387.5	4381.2
7.5°	3984.4	3954.2	3912.6	3984.4	3998.3	3975.6	4060.0	4044.9	4112.9	4201.1	4216.2
10°	3819.4	3787.9	3751.4	3816.9	3827.0	3811.9	3897.5	3888.7	3955.5	4057.5	4097.8
12.5°	3702.3	3675.8	3635.5	3704.8	3716.1	3694.7	3775.3	3771.5	3840.8	3947.9	3998.3
15°	3620.4	3588.9	3552.4	3611.6	3626.7	3602.7	3679.6	3672.0	3742.6	3848.4	3905.1
17.5°	3543.5	3514.6	3476.8	3532.2	3547.3	3522.1	3597.7	3585.1	3645.6	3746.3	3804.3
20°	3471.7	3440.2	3406.2	3462.9	3471.7	3442.8	3518.3	3502.0	3556.1	3649.4	3706.0
22.5°	3397.4	3364.7	3329.4	3384.8	3393.6	3364.7	3433.9	3415.0	3465.4	3549.8	3601.5
25°	3315.5	3285.3	3250.0	3301.7	3309.2	3277.7	3350.8	3326.9	3371.0	3445.3	3488.1
27.5°	3233.7	3204.7	3165.6	3218.5	3222.3	3192.1	3258.8	3226.1	3262.6	3330.6	3367.2
30°	3219.8	3187.0	3146.7	3189.6	3190.8	3151.8	3214.8	3175.7	3195.9	3246.2	3267.7
32.5°	3263.9	3231.1	3189.6	3224.8	3221.1	3178.2	3238.7	3190.8	3197.1	3223.6	3218.5
35°	3246.2	3207.2	3158.1	3195.9	3195.9	3144.2	3204.7	3148.0	3141.7	3145.5	3114.0
37.5°	3046.0	3015.7	2969.1	3005.6	3001.9	2962.8	3009.4	2962.8	2941.4	2932.6	2875.9
40°	2751.2	2714.7	2679.4	2718.4	2722.2	2680.6	2741.1	2688.2	2681.9	2656.7	2589.9
42.5°	2452.6	2440.0	2406.0	2438.8	2456.4	2421.1	2471.5	2446.3	2450.1	2443.8	2380.8
45°	2191.9	2170.5	2145.3	2183.1	2194.4	2176.8	2227.2	2212.0	2227.2	2258.6	2207.0
47.5°	1911.0	1889.6	1861.8	1902.1	1922.3	1889.6	1932.4	1927.3	1950.0	2004.2	1999.1
50°	1572.1	1557.0	1552.0	1557.0	1569.6	1554.5	1584.7	1586.0	1601.1	1675.4	1680.4
52.5°	1244.6	1240.8	1223.2	1239.5	1239.5	1215.6	1245.8	1232.0	1247.1	1297.5	1330.2
55°	973.7	970.0	958.6	973.7	957.4	948.6	957.4	943.5	932.2	971.2	1005.2
57.5°	758.3	745.7	731.9	738.2	736.9	718.0	728.1	711.7	702.9	716.8	747.0
60°	540.4	536.6	524.0	530.3	535.4	521.5	531.6	524.0	508.9	520.3	521.5
62.5°	359.0	361.5	354.0	355.2	351.5	348.9	355.2	359.0	355.2	350.2	351.5
65°	228.0	226.7	225.5	226.7	229.3	224.2	228.0	230.5	226.7	226.7	225.5
67.5°	151.2	147.4	143.6	146.1	148.6	144.9	148.6	147.4	148.6	147.4	143.6
70°	102.0	100.8	99.5	100.8	100.8	98.3	100.8	99.5	100.8	99.5	95.7
72.5°	74.3	74.3	73.1	74.3	74.3	71.8	73.1	70.5	71.8	70.5	68.0
75°	55.4	55.4	54.2	55.4	54.2	52.9	54.2	52.9	50.4	50.4	47.9
77.5°	40.3	40.3	40.3	40.3	40.3	39.1	39.1	37.8	36.5	35.3	35.3
80°	30.2	29.0	29.0	29.0	29.0	27.7	29.0	27.7	26.5	25.2	23.9
82.5°	21.4	22.7	21.4	21.4	21.4	20.2	21.4	20.2	20.2	18.9	16.4
85°	16.4	16.4	16.4	16.4	16.4	15.1	15.1	15.1	13.9	13.9	12.6
87.5°	8.8	8.8	8.8	10.1	8.8	8.8	8.8	7.6	7.6	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4
2.5°	4639.5	4645.8	4631.9	4653.3	4736.5	4669.7	4697.4	4706.2	4769.2	4780.6	4773.0
5°	4463.1	4490.8	4508.5	4556.3	4648.3	4600.4	4649.6	4681.0	4761.7	4788.1	4794.4
7.5°	4324.6	4382.5	4425.3	4503.4	4611.8	4575.2	4649.6	4701.2	4799.5	4833.5	4849.8
10°	4221.3	4309.4	4383.8	4490.8	4613.0	4589.1	4686.1	4759.1	4868.7	4909.1	4929.2
12.5°	4143.2	4250.2	4349.7	4485.8	4618.1	4606.7	4723.9	4807.0	4922.9	4963.2	4987.2
15°	4057.5	4180.9	4296.8	4449.3	4591.6	4589.1	4715.1	4803.2	4921.6	4955.7	4978.3
17.5°	3955.5	4087.7	4215.0	4380.0	4521.1	4523.6	4650.8	4737.7	4853.6	4881.3	4896.5
20°	3852.2	3983.2	4110.4	4280.5	4419.0	4422.8	4547.5	4628.1	4739.0	4761.7	4765.4
22.5°	3742.6	3864.8	3992.0	4160.8	4294.3	4296.8	4420.3	4495.9	4590.3	4601.7	4611.8
25°	3617.9	3737.5	3857.2	4024.7	4152.0	4159.5	4271.6	4338.4	4425.3	4434.1	4437.9
27.5°	3488.1	3586.4	3701.0	3844.6	3973.1	3968.1	4073.9	4149.5	4227.6	4222.5	4221.3
30°	3357.1	3439.0	3509.5	3648.1	3742.6	3746.3	3845.9	3882.4	3964.3	3954.2	3952.9
32.5°	3265.1	3286.6	3305.5	3376.0	3465.4	3433.9	3502.0	3547.3	3604.0	3600.2	3601.5
35°	3096.3	3057.3	3000.6	3010.7	3064.9	3015.7	3052.3	3051.0	3108.9	3095.1	3111.5
37.5°	2807.9	2697.0	2571.0	2499.2	2509.3	2447.6	2435.0	2465.2	2485.4	2446.3	2460.2
40°	2500.5	2336.7	2140.2	1976.5	1967.7	1890.8	1877.0	1846.7	1885.8	1853.0	1863.1
42.5°	2273.8	2057.1	1798.9	1599.8	1557.0	1492.7	1455.0	1449.9	1461.3	1438.6	1432.3
45°	2099.9	1869.4	1573.4	1345.4	1297.5	1228.2	1190.4	1176.6	1177.8	1170.3	1164.0
47.5°	1895.8	1664.1	1364.3	1131.2	1077.0	1011.5	973.7	964.9	970.0	959.9	952.3
50°	1613.7	1405.8	1132.5	919.6	871.7	823.8	793.6	784.8	783.5	776.0	770.9
52.5°	1310.1	1137.5	900.7	723.1	680.2	633.6	612.2	600.9	602.1	594.6	587.0
55°	1014.1	907.0	697.9	546.7	507.7	471.1	451.0	437.1	433.3	425.8	422.0
57.5°	754.6	682.8	522.8	394.3	371.6	336.3	316.2	299.8	297.3	293.5	292.3
60°	529.1	477.4	367.8	280.9	254.5	233.0	212.9	196.5	189.0	187.7	183.9
62.5°	342.6	311.1	241.9	187.7	167.5	152.4	132.3	120.9	115.9	110.9	112.1
65°	212.9	189.0	151.2	120.9	109.6	98.3	83.1	73.1	68.0	63.0	64.2
67.5°	132.3	118.4	95.7	78.1	70.5	61.7	50.4	42.8	39.1	35.3	32.8
70°	89.4	76.8	65.5	55.4	50.4	44.1	36.5	30.2	27.7	25.2	22.7
72.5°	63.0	56.7	47.9	41.6	37.8	32.8	27.7	23.9	21.4	18.9	16.4
75°	45.3	40.3	35.3	30.2	27.7	25.2	21.4	18.9	16.4	13.9	11.3
77.5°	32.8	29.0	25.2	22.7	21.4	17.6	15.1	13.9	12.6	10.1	7.6
80°	22.7	20.2	16.4	15.1	15.1	12.6	11.3	10.1	8.8	6.3	5.0
82.5°	15.1	13.9	12.6	11.3	10.1	8.8	8.8	6.3	5.0	3.8	2.5
85°	11.3	10.1	8.8	7.6	7.6	6.3	5.0	3.8	3.8	2.5	1.3
87.5°	6.3	6.3	5.0	3.8	3.8	2.5	2.5	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4
2.5°	4837.2	4841.0	4862.4	4846.1	4887.6	4917.9	4902.8	4936.8	4925.4	4922.9	4962.0
5°	4870.0	4878.8	4907.8	4892.7	4938.0	4970.8	4955.7	4993.5	4982.1	4979.6	5019.9
7.5°	4933.0	4941.8	4967.0	4954.4	5002.3	5031.2	5012.3	5053.9	5038.8	5037.5	5076.6
10°	5012.3	5024.9	5046.4	5033.8	5077.9	5103.0	5084.2	5124.5	5110.6	5104.3	5147.1
12.5°	5071.6	5080.4	5101.8	5091.7	5134.5	5153.4	5137.1	5176.1	5158.5	5153.4	5191.2
15°	5057.7	5066.5	5084.2	5075.3	5115.6	5133.3	5111.9	5154.7	5137.1	5127.0	5161.0
17.5°	4969.5	4974.6	4987.2	4978.3	5021.2	5032.5	5008.6	5051.4	5035.0	5017.4	5050.1
20°	4839.8	4837.2	4844.8	4841.0	4876.3	4882.6	4867.5	4899.0	4880.1	4870.0	4888.9
22.5°	4678.5	4676.0	4681.0	4671.0	4706.2	4710.0	4687.3	4725.1	4706.2	4687.3	4718.8
25°	4499.6	4485.8	4483.3	4487.1	4511.0	4514.8	4490.8	4518.5	4494.6	4479.5	4509.7
27.5°	4279.2	4261.6	4257.8	4261.6	4285.5	4267.9	4247.7	4267.9	4243.9	4230.1	4249.0
30°	4007.1	3981.9	3970.6	3963.0	3988.2	3981.9	3935.3	3958.0	3920.2	3900.0	3913.9
32.5°	3640.5	3626.7	3596.4	3578.8	3602.7	3554.9	3525.9	3525.9	3510.8	3476.8	3484.3
35°	3131.6	3110.2	3082.5	3067.4	3071.1	3006.9	2959.0	2969.1	2918.7	2909.9	2913.7
37.5°	2487.9	2452.6	2442.6	2411.1	2418.6	2361.9	2296.4	2297.7	2271.2	2243.5	2234.7
40°	1869.4	1863.1	1853.0	1826.6	1836.6	1774.9	1749.7	1751.0	1733.3	1713.2	1723.3
42.5°	1444.9	1424.7	1418.4	1409.6	1412.1	1402.0	1369.3	1373.1	1358.0	1352.9	1347.9
45°	1174.0	1152.6	1137.5	1145.1	1145.1	1133.7	1121.1	1128.7	1121.1	1111.1	1116.1
47.5°	967.4	947.3	939.7	938.5	947.3	939.7	927.1	929.7	928.4	924.6	922.1
50°	772.2	767.2	760.9	757.1	760.9	758.3	747.0	753.3	757.1	744.5	748.3
52.5°	588.3	588.3	587.0	578.2	585.8	578.2	576.9	579.5	575.7	570.6	569.4
55°	430.8	427.0	420.7	419.5	422.0	419.5	417.0	418.2	420.7	408.1	408.1
57.5°	294.8	292.3	288.5	288.5	293.5	287.2	283.4	288.5	283.4	278.4	278.4
60°	189.0	187.7	183.9	183.9	183.9	182.7	178.9	180.1	182.7	175.1	176.4
62.5°	113.4	109.6	108.3	107.1	108.3	107.1	107.1	105.8	104.6	104.6	100.8
65°	61.7	59.2	56.7	57.9	57.9	56.7	56.7	56.7	54.2	52.9	51.6
67.5°	31.5	29.0	29.0	27.7	27.7	27.7	27.7	26.5	26.5	26.5	25.2
70°	20.2	18.9	17.6	17.6	17.6	16.4	16.4	16.4	16.4	16.4	15.1
72.5°	13.9	12.6	11.3	11.3	11.3	10.1	10.1	10.1	10.1	8.8	8.8
75°	10.1	8.8	7.6	7.6	7.6	6.3	6.3	6.3	6.3	6.3	6.3
77.5°	6.3	5.0	5.0	5.0	5.0	3.8	3.8	3.8	3.8	3.8	2.5
80°	3.8	3.8	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3
82.5°	2.5	2.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P250907

CATALOG NUMBER: LSR8B70D010 EC8B70950 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4	4794.4
2.5°	4948.1	4938.0	4944.3	4990.9	4970.8	4964.5	4911.6	4958.2
5°	5007.3	4999.8	4999.8	5052.7	5028.7	5023.7	4972.0	5012.3
7.5°	5062.7	5055.2	5056.4	5110.6	5091.7	5084.2	5032.5	5072.8
10°	5134.5	5129.5	5130.8	5182.4	5162.3	5154.7	5101.8	5143.4
12.5°	5177.4	5169.8	5169.8	5225.2	5202.6	5191.2	5140.8	5181.1
15°	5144.6	5133.3	5133.3	5188.7	5163.5	5147.1	5103.0	5140.8
17.5°	5032.5	5021.2	5021.2	5069.0	5050.1	5026.2	4980.9	5016.1
20°	4876.3	4862.4	4858.7	4914.1	4887.6	4866.2	4825.9	4859.9
22.5°	4699.9	4693.6	4682.3	4737.7	4713.8	4691.1	4648.3	4674.7
25°	4488.3	4478.2	4466.9	4521.1	4497.1	4474.5	4440.4	4461.9
27.5°	4225.0	4226.3	4220.0	4262.8	4238.9	4226.3	4184.7	4220.0
30°	3906.3	3892.5	3887.4	3937.8	3915.1	3898.8	3847.1	3881.1
32.5°	3490.6	3470.5	3444.0	3500.7	3461.7	3447.8	3403.7	3452.8
35°	2886.0	2879.7	2855.7	2903.6	2882.2	2857.0	2829.3	2870.9
37.5°	2230.9	2236.0	2233.4	2246.0	2233.4	2217.1	2186.8	2171.7
40°	1703.1	1690.5	1680.4	1703.1	1676.7	1676.7	1659.0	1677.9
42.5°	1335.3	1330.2	1342.8	1347.9	1332.8	1330.2	1327.7	1326.5
45°	1102.2	1102.2	1104.8	1109.8	1104.8	1102.2	1094.7	1089.6
47.5°	908.2	913.3	908.2	924.6	915.8	913.3	898.2	904.5
50°	735.7	729.4	735.7	740.7	742.0	734.4	726.8	730.6
52.5°	570.6	560.6	558.0	565.6	560.6	560.6	555.5	554.3
55°	401.8	405.6	399.3	405.6	403.1	399.3	395.5	400.6
57.5°	272.1	273.4	270.8	274.6	268.3	269.6	268.3	267.1
60°	176.4	171.3	171.3	175.1	168.8	168.8	167.5	167.5
62.5°	100.8	99.5	99.5	98.3	97.0	97.0	97.0	94.5
65°	51.6	50.4	49.1	49.1	49.1	49.1	47.9	47.9
67.5°	25.2	23.9	23.9	25.2	23.9	23.9	23.9	23.9
70°	15.1	15.1	13.9	15.1	13.9	13.9	13.9	13.9
72.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
77.5°	3.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)